CSUN®

COLLEGE OF
HEALTH AND HUMAN
DEVELOPMENT

RADIOLOGIC SCIENCES

Undergraduate Degree Program

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PROGRAM INFORMATION

The Radiologic Sciences B.S. degree program prepares radiographers (Radiologic Technologists) to work with patients and physicians, performing a wide variety of diagnostic imaging procedures within the radiology (x-ray) department. Radiologic Technologists must know the principles of anatomy, physiology, pathology, radiographic imaging, radiation safety, the operation of many types of x-ray and computerized equipment, the professional care and handling of patients, and the management of a radiology department or division. The baccalaureate program provides a multicomponent radiographer for the diagnostic team. Program competencies include experiences with standard x-ray equipment, angiographic suites, computed tomography (CT or CAT scan), magnetic resonance (MR), digital and computer radiography (DR, CR) systems, digital vascular imaging devices, and mammography

The Radiologic Sciences program consists of 2 phases, the pre-professional and the professional phase. During the pre-professional portion, students complete the General Education requirements and the Radiologic Sciences prerequisites. Upon successful completion of the pre-professional phase, students become eligible to apply to the professional Radiologic Sciences program which includes over 2,600 hours of clinical internship at affiliate Medical Centers. A limited number of clinical positions at these medical centers are available each year for students accepted into the professional phase A separate application to the R.S. Program Selection Committee for clinical internship placement is due each January in the CSUN Health Sciences Department. Prior to submitting an application, hospital tours of clinical facilities must be completed, as well as advisement. Advisement appointments can be made through the website hsci.setmore.com prior to submitting an application. See the Department for application and information regarding selection criteria for the professional phase of the program. Please note that meeting prerequisite criteria DOES NOT guarantee placement into the professional Radiologic Sciences program.

If selected to the professional Radiologic Sciences program, prior to clinical placements, all CSUN radiologic sciences students are required to obtain their own criminal background checks at their sole cost and to supply that information to designated approving agencies or persons. In order to meet accreditation standards many clinical agencies are requiring background checks and drug testing on all students placed at their facilities and have the right to refuse a student clinical placement based upon information on background checks and drug testing. Students will be unable to complete degree requirements if clinical placements are refused. Further information on background checks and where to obtain them is available from radiologic sciences advisors. Professional RS students are responsible for obtaining, at their sole cost, any necessary health exams, drug tests, immunizations, evidence of a TB test, titers, or other requirements necessary to meet OSHA requirements, and maintain compliance with requirements by the University and affiliating clinical agencies. Documentation of the requirements is to be submitted to the designated person, upon request. Before the first clinical course, each student is required to complete a pre-clinical checklist and provide proof that requirements are currently met. Access to reliable transportation is required for clinical courses off campus.

STUDENT LEARNING OUTCOMES OF THE RADIOLOGIC SCIENCES B.S. DEGREE

Graduates of the Radiological Science Program at California State University, Northridge will:

1. Demonstrate a mastery of basic radiographic imaging skills and advanced medical imaging skills in MRI, CT, and interventional Radiology
2. Demonstrate effective communication skills that provide compassionate and age appropriate patient care.
3. Demonstrate problem solving/critical thinking skills that provide ethical and safe patient care.
4. Demonstrate the value of professional development to patient care and medical imaging that meets the needs of the medical imagining community.
5. Maintain program effectiveness through continual assessment

1. Lower Division Required Courses (31 units)

*Overlap with lower division general Education requirements
**Math105 will also meet with this requirement

Biol	101/L	General Biology and Lab*	4
Biol	211	Human Anatomy	2
Biol	212	Lab Studies in Human Anatomy	1
Biol	281	Human Physiology	3
Chem	100	Principles of Chemistry	3
PSY	15	Principles of Human Behavior*	3
Soc	150	Introductory Sociology*	3
Phy	100A	General Physics I*	3
Phy	100B/L	General Physics II and Lab*	4
Math	106	Mathematical Found. for non-Calculus Physics**	5

2. Clinical Courses (19 units)

HSCI	280	Radiologic Sciences: Clinical Education I	2
HSCI	281	Radiologic Sciences: Clinical Education II	2
HSCI	282	Radiologic Sciences: Clinical Education III	3
HSCI	283	Radiologic Sciences: Clinical Education IV	3
HSCI	284	Radiologic Sciences: Clinical Education V	3
HSCI	386	Radiologic Sciences: Clinical Education VI	3
HSCI	387	Radiologic Sciences: Clinical Education VII	3

3. Professional Courses (41 units)

PHYS	376	Radiologic Physics	3
HSCI	181	Medical Imaging Sciences I	3
HSCI	182	Medical Imaging Sciences II	3
HSCI	285	Radiographic Anatomy & Positioning I	4
HSCI	286	Radiographic Anatomy & Positioning II	4
HSCI	302	Pathophysiology	3
HSCI	380	Cross-Sectional Anatomy for Radiographers	2
HSCI	385	Quality Assurance & Eval. of Radiologic Imaging Equip.	2
HSCI	480	Computed Tomography	2
HSCI	482	Angiography and Interventional Procedures	3
HSCI	483A	Medical Imaging Pathology	2
HSCI	485	Principles of MRI	3
HSCI	486 A/B	Seminar: Advances in Radiologic Imaging	1/1
EOH	467	Radiation Health	3

4. Required Upper-Division Health Sciences Core (9-10 units)

* Overlap with upper division General Education requirements.

HSCI	488	Epidemiology Study of Disease	3
HSCI	390/L	Biostatistics and Lab	3/1
HSCI	487	Professional Dev. for Radiographers	3

TOTAL UNITS IN THE MAJOR GENERAL	84
EDUCATION UNITS	42
TOTAL UNITS REQUIRED FOR THE DEGREE	126

ADVISEMENT

Individuals who are interested in the RS program and desire further information should contact the Health Sciences Department (818) 677-4081 or by e-mail: hsci@csun.edu or schedule an appointment through hsci.setmore.com. Complete program information is available at:

http:j/www.csun.edu/health-human-developmentjhealth- sciences/radiologic-sciences

FINANCIAL ASSISTANCE

The University makes a full range of financial assistance available to students. For information, contact the Financial Aid Office at :

https://www.csun.edu/financialaid/